ABSTRACT OF THE DISCLOSURE

An image processing device comprises an SIMD (Single Instruction stream Multiple Data stream) calculating unit (101) for performing operations, such as motion compensation, motion prediction, DCT (Discrete Cosine Transform) processing, IDCT (Inverse Discrete Cosine Transform) processing, quantization, and reverse quantization by means of a pipeline operation unit that can be program-controlled by an outside unit, a VLC (Variable Length Code) processing unit (102) for performing variable-length encoding processing and variable-length decoding processing according to a given encoding method, an external data interface (103) for performing a data transfer between the image processing device and an outside unit, and a processor (105) for decoding an instruction held by an instruction memory (104), and for performing a programmed control operation on the SIMD calculating unit (101), the VLC processing unit (102), and the external data interface (103).